STROBE Statement—Checklist of items that should be included in reports of *cross-sectional studies* 

	Item No	Recommendation	Page No
Title and abstract	1	(a) Indicate the study's design with a commonly used	Title
		term in the title or the abstract	
		(b) Provide in the abstract an informative and	Title
		balanced summary of what was done and what was	
		found	
Introduction			
Background/rationale	2	Explain the scientific background and rationale for	Introduction, paragraphs
		the investigation being reported	1-3
Objectives	3	State specific objectives, including any prespecified	Introduction, paragraph 4;
		hypotheses	
Methods			
Study design	4	Present key elements of study design early in the	Methods, subsection study
		paper	design, paragraph 1
Setting	5	Describe the setting, locations, and relevant dates,	Methods, subsection study
		including periods of recruitment, exposure, follow-	design, paragraphs 1-2
		up, and data collection	
Participants	6	(a) Give the eligibility criteria, and the sources and	Methods, subsection study
1		methods of selection of participants	design, paragraphs 1-2
Variables	7	Clearly define all outcomes, exposures, predictors,	Methods, subsections
		potential confounders, and effect modifiers. Give	vaccination survey &
		diagnostic criteria, if applicable	statistical analysis
Data sources/	8*	For each variable of interest, give sources of data and	Methods, subsections
measurement		details of methods of assessment (measurement).	vaccination survey &
		Describe comparability of assessment methods if	statistical analysis
		there is more than one group	
Bias	9	Describe any efforts to address potential sources of	Methods, subsection
		bias	statistical analysis,
			paragraph 2
Study size	10	Explain how the study size was arrived at	Methods, subsection study
			design, paragraphs 2-3
Quantitative variables	11	Explain how quantitative variables were handled in	Methods, subsections
		the analyses. If applicable, describe which groupings	statistical analysis;
		were chosen and why	Appendix Protocol,
			section data plan
Statistical methods	12	(a) Describe all statistical methods, including those	Methods, subsections
		used to control for confounding	statistical analysis;
		(b) Describe any methods used to examine subgroups	
		and interactions	
		(c) Explain how missing data were addressed	
		(d) If applicable, describe analytical methods taking	
		account of sampling strategy	
		$(\underline{e})$ Describe any sensitivity analyses	

## Results

Participants	13*	(a) Report numbers of individuals at each stage of study—eg numbers potentially eligible, examined for eligibility, confirmed eligible, included in the study, completing follow-up, and analysed	Figure 1, results paragraph
		(b) Give reasons for non-participation at each stage	Figure 1, results paragraph
		(c) Consider use of a flow diagram	Figure 1
Descriptive data	14*	(a) Give characteristics of study participants (eg	Table 1, results paragraph
		demographic, clinical, social) and information on	2
		exposures and potential confounders	
		(b) Indicate number of participants with missing data for each variable of interest	Table 1
Outcome data	15*	Report numbers of outcome events or summary	Tables 2 & , 3
		measures	
Main results	16	(a) Give unadjusted estimates and, if applicable,	Results,
		confounder-adjusted estimates and their precision (eg,	paragraphs 2, 3
		95% confidence interval). Make clear which	
		confounders were adjusted for and why they were	
		included	
		(b) Report category boundaries when continuous	Tables 2, 3
		variables were categorized	
		(c) If relevant, consider translating estimates of	NA
		relative risk into absolute risk for a meaningful time	
		period	
Other analyses	17	Report other analyses done—eg analyses of	Table 3, subsection risk
		subgroups and interactions, and sensitivity analyses	factors for seroprevalence
Discussion			
Key results	18	Summarise key results with reference to study objectives	Discussion, paragraph 1
Limitations	19	Discuss limitations of the study, taking into account	Discussion, paragraph 7
		sources of potential bias or imprecision. Discuss both	
		direction and magnitude of any potential bias	
Interpretation	20	Give a cautious overall interpretation of results	Discussion, paragraphs 3-
		considering objectives, limitations, multiplicity of	6
		analyses, results from similar studies, and other	
		relevant evidence	
Generalisability	21	Discuss the generalisability (external validity) of the	Discussion, paragraph 7
		study results	
Other information			T
Funding	22	Give the source of funding and the role of the funders	Funding statement
		for the present study and, if applicable, for the	
		original study on which the present article is based	

<sup>\*</sup>Give information separately for exposed and unexposed groups.

**Note:** An Explanation and Elaboration article discusses each checklist item and gives methodological background and published examples of transparent reporting. The STROBE checklist is best used in conjunction with this article (freely

available on the Web sites of PLoS Medicine at http://www.plosmedicine.org/, Annals of Internal Medicine at http://www.annals.org/, and Epidemiology at http://www.epidem.com/). Information on the STROBE Initiative is available at www.strobe-statement.org.